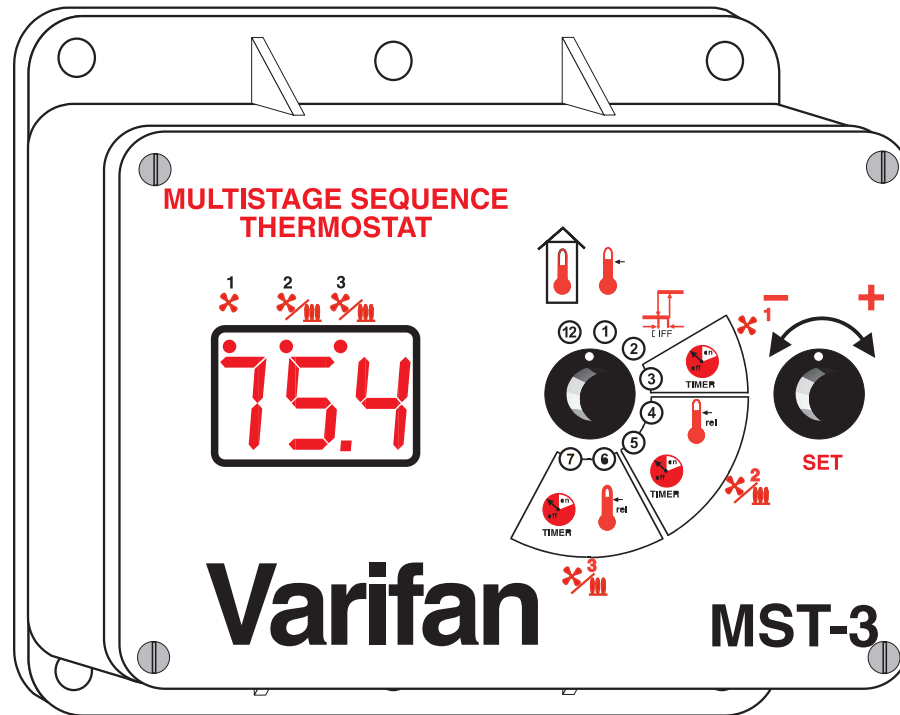


Varifan

MST-3

3 Stage Digital Thermostat



Features:

- Heating or cooling mode individually selected for stage 2 and 3.
- Sequence heating or cooling.
- For multiple speed fans or multiple stage heating.

Specifications:

- Voltage: 115/230 VAC
- Protection: 10 AMP. fuse per stage
- 5 minute timer
- Temperature range:
4.5 to 44.5°C (40 to 112°F)

FUNCTIONS

| DIAL | SYMBOL | CONTROL VALUE | RANGE | INCREMENTS | FIXED |
|------|--------|--|--|----------------|-------|
| 1 | | <input type="checkbox"/> Main set point | 40.0 to 112.0°F 4.5 to 44.5°C | 0.5°F 0.5°C | |
| 2 | | <input type="checkbox"/> Differential for all stages | 0.5 to 8.0°F 0.5 to 4.0°C | 0.5°F 0.5°C | |
| 3 | | <input type="checkbox"/> Duty cycle timer 5min. differential for timer | <div>STAGE 1</div> 5 to 100 %, ON | | |
| 4 | | <input type="checkbox"/> Relative set point | <div>STAGE 2</div> -6.0 to 14.0°F -3.0 to 8.0°C | | |
| 5 | | <input type="checkbox"/> Duty cycle timer 5min. differential for timer | <div>STAGE 2</div> 5 to 100 %, ON | | |
| 6 | | <input type="checkbox"/> Relative set point | <div>STAGE 3</div> -6.0 to 14.0°F -3.0 to 8.0°C | | |
| 7 | | <input type="checkbox"/> Duty cycle timer 5min. differential for timer | <div>STAGE 3</div> 5 to 100 %, ON | | |
| 12 | | <input type="checkbox"/> Room temperature | 40.0 to 112.0°F 4.5 to 44.5°C | 0.5°F 0.5°C | |

MST-3

MST-301

Notes:

- **Temperature rise:** Fan runs on timer when room temperature exceeds set point and runs without timer when room temperature exceeds set point + differential.

- **Temperature drop:** Fan runs with timer when temperature drops below set point + differential and stops as room temperature reaches set point - differential.

- **To eliminate timer function,** turn set knob one notch further than 100%, "ON" will appear on the display.

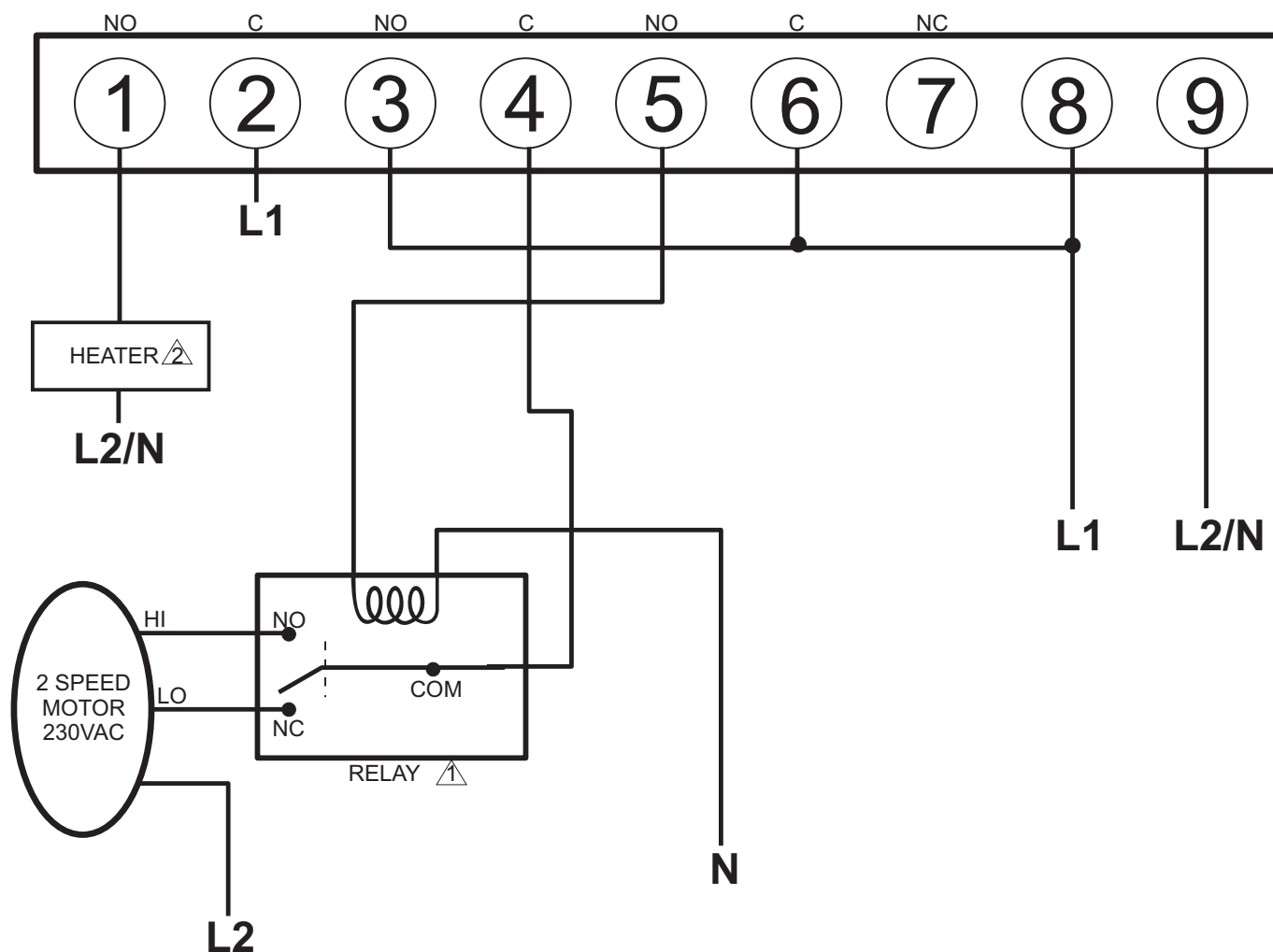
SPECIFICATIONS:

- Voltage: 115/230 V AC
- Protection: 10 AMP. fuse per stage
- Timer: 5 Minutes
- Temperature range:
4.5°C to 44.5°C or 40°F to 112°F

DIP SWITCHES

| | FUNCTIONS | OFF | ON |
|---|---------------------|--------|------|
| 1 | TEMPERATURE | °F | °C |
| 2 | LOCK CONTROL VALUES | YES | NO |
| 3 | STAGE 2 | HEATER | COOL |
| 4 | STAGE 3 | HEATER | COOL |

MST-3 WITH A 2 SPEED MOTOR

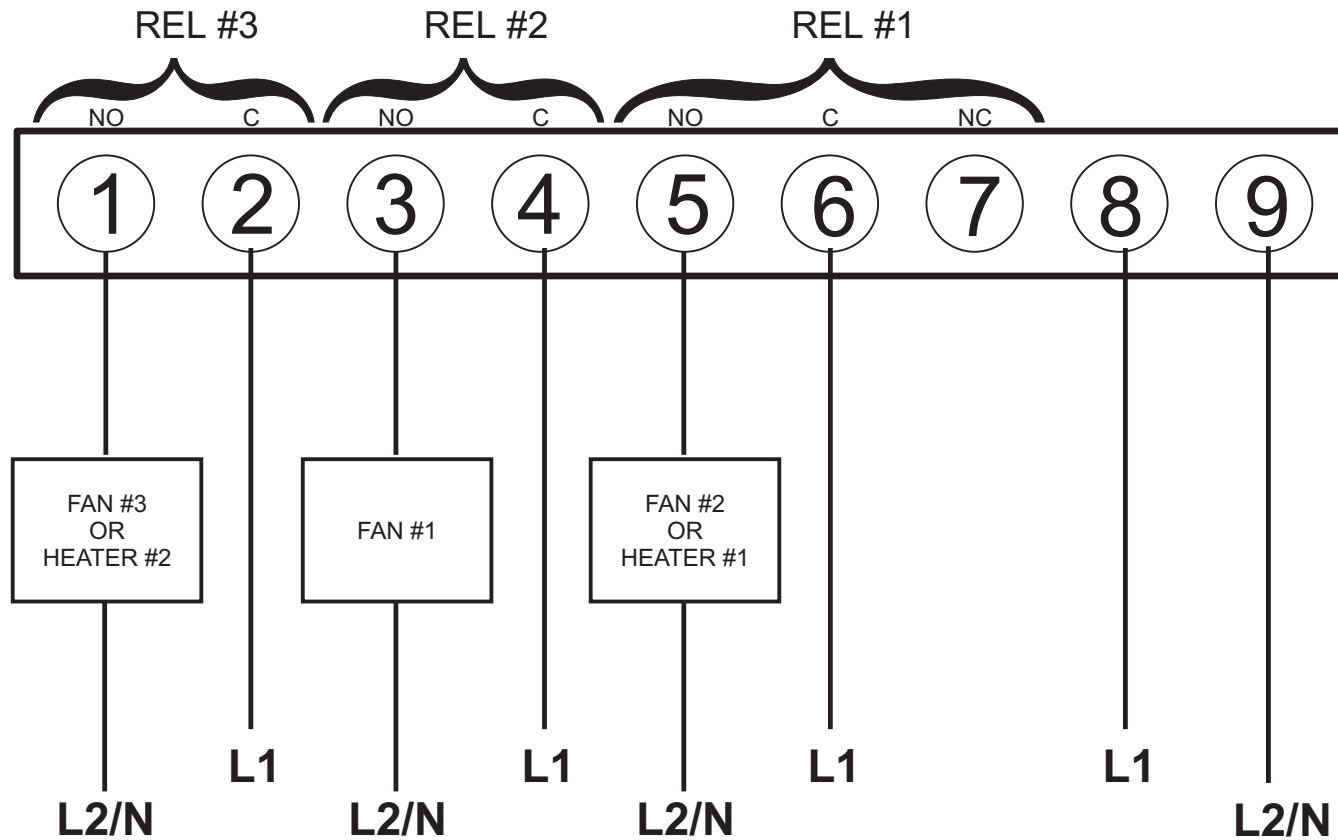


△1 Relay, SPDT, contact 2 HP on 230 VAC, coil 115VAC min current 25mA
(not supplied with the MST-3)

△2 The heater can be replaced by a fan.

MST-3

3 STAGES POWERED BY DIFFERENT BREAKER THAN MST-3



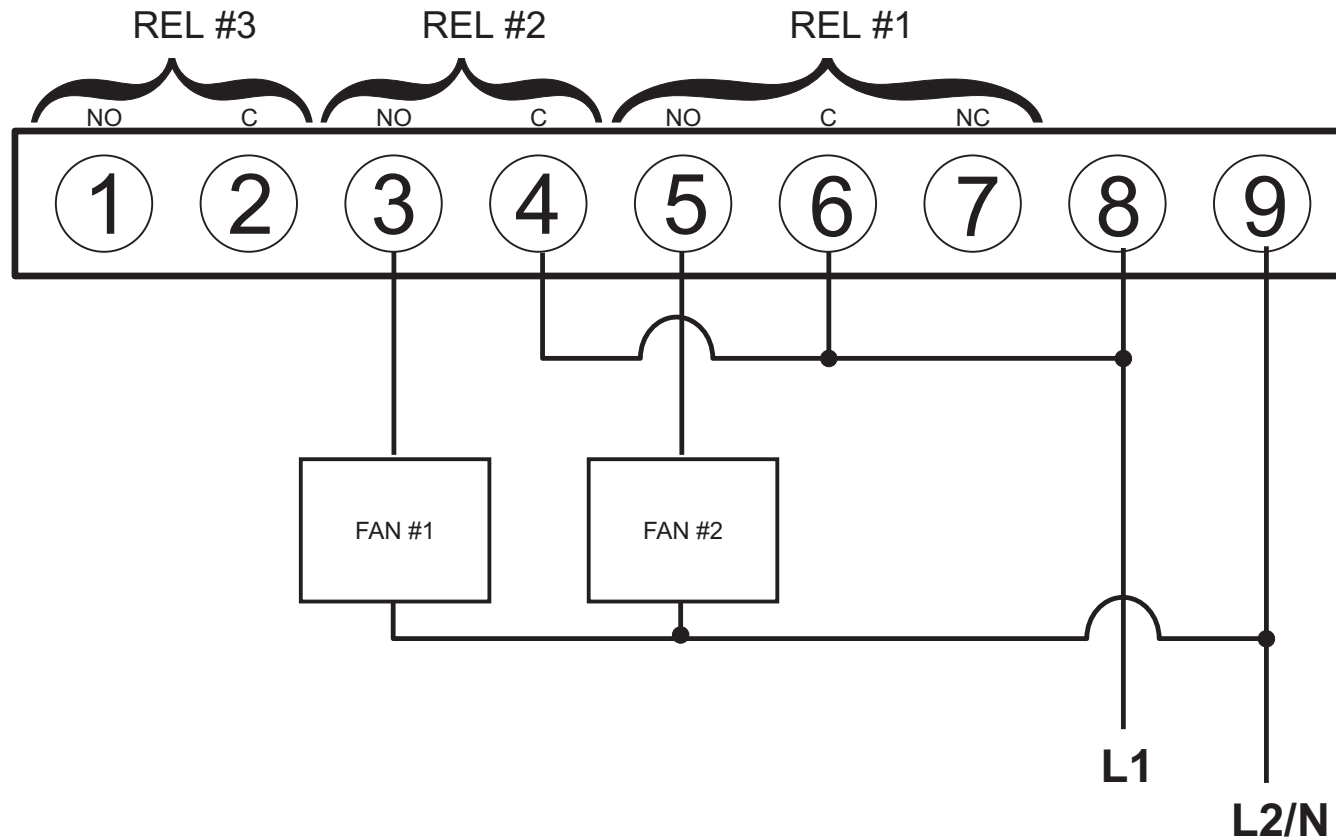
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MST-3

2 FANS POWERED BY SAME BREAKER AS MST-3



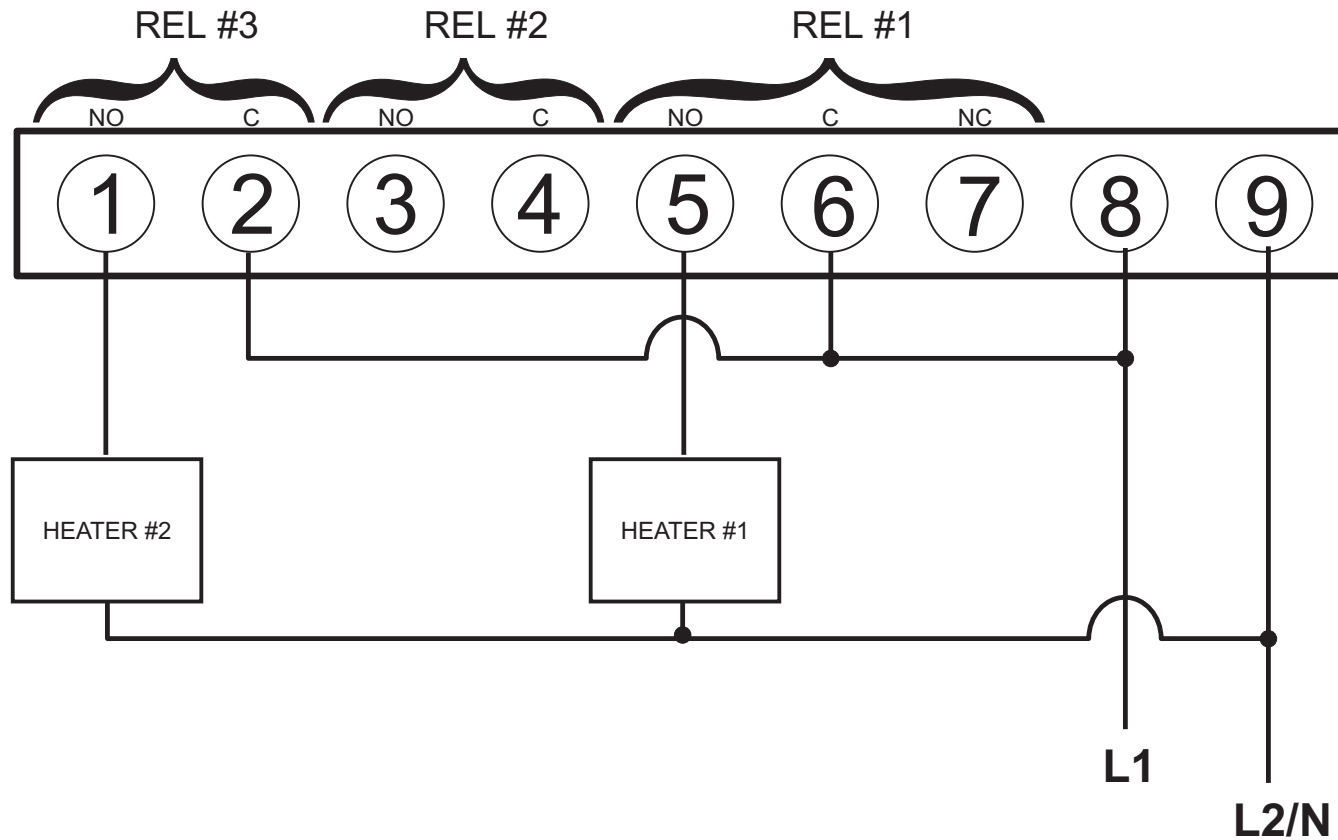
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MST-3

2 HEATERS POWERED BY SAME BREAKER AS MST-3



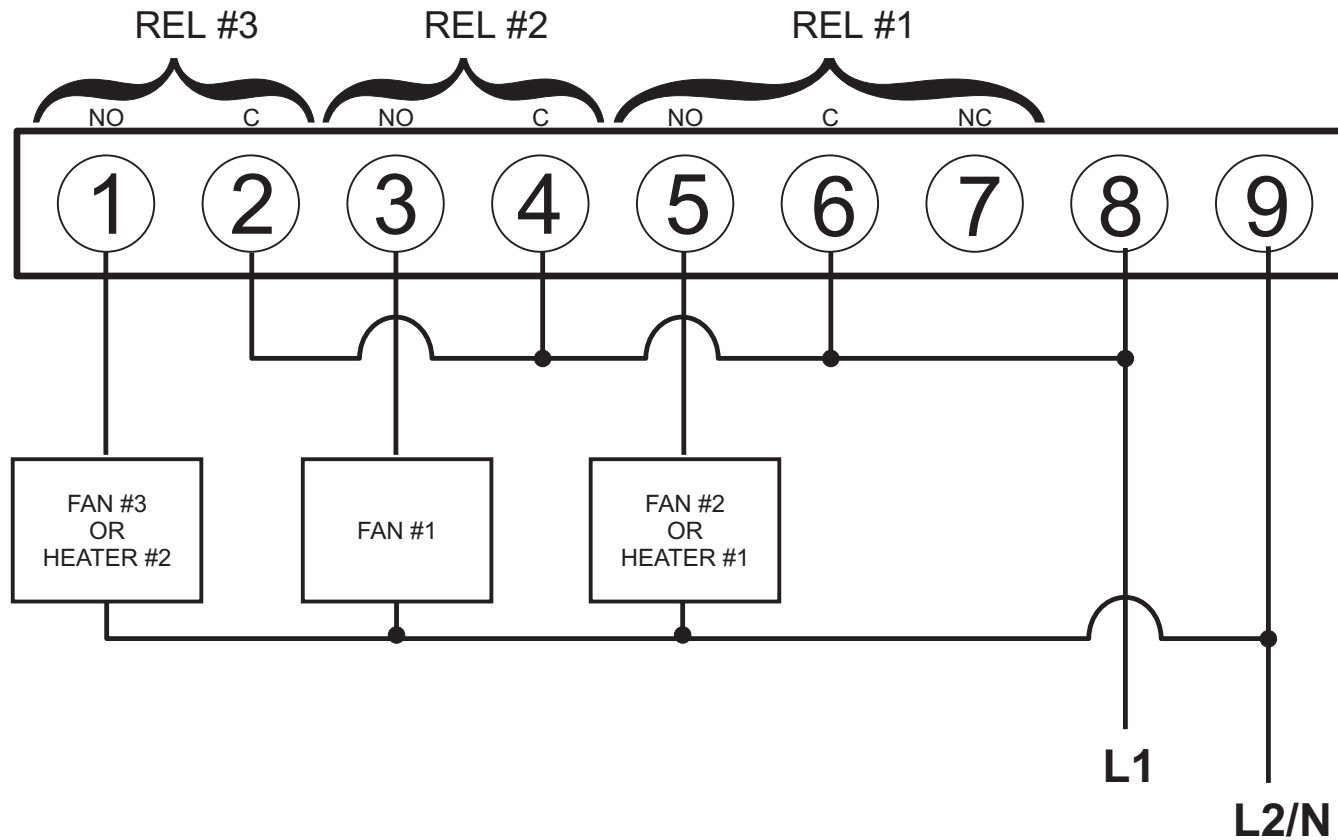
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MST-3

3 STAGES POWERED BY SAME BREAKER AS MST-3



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/WIRING/MST_3VERSION1.CDR

LIMITED WARRANTY

Although the manufacturer has made every effort to ensure the accuracy of the information contained herein, this document is subject to change without notice due to ongoing product development.

WARNINGS AND PRECAUTIONS

Defective equipment, probe failure, blown fuses and/or tripped breakers may prove harmful to the contents of the building. Therefore it is strongly recommended to install backup devices and alarm or warning devices. Spare equipment should also be available at the user's site. Equipment manufactured by the manufacturer is protected against normal line surges. High surges caused by thunder storms or power supply equipment may damage this equipment. For added security against line voltage surges it is recommended that surge and noise suppression devices be installed at the electrical distribution panel. Use of shielded cable for probes is recommended for protection against lightning. These devices are available from most electrical supply distributors.

RECOMMENDATIONS

The manufacturer recommends that all installation procedures described herein be performed by a qualified electrician or installation technician. Furthermore the manufacturer recommends to test all the functions and equipment connected to the control, including the alarm system and backup devices, after installation, after changes to the installation and every month after that.

Fuse verification and replacement, as well as the proper setting of control values shall be the responsibility of the owner of this equipment.

LIMITED WARRANTY

The manufactured equipment and supplied components have gone through rigorous inspection to assure optimal quality of product and reliability. Individual controls are factory tested under load, however the possibility of equipment failure and/or malfunction may still exist.

For service, contact your local retailer or supplier. The warranty period shall be for two years from manufacturing date. Proof of purchase is required for warranty validation.

In all cases, the warranty shall apply only to defects in workmanship and specifically exclude any damage caused by over-voltage, short circuit, misuse, acts of vandalism, lightning, fortuitous events, acts of God, flood, fire, hail or any other natural disaster. Any unauthorized work, modification or repair on this product automatically voids the warranty and disclaims the manufacturer from all responsibility.

The manufacturer assumes only those obligations set forth herein, excluding all other warranties or obligations. This warranty stipulates that in all cases the manufacturer shall be liable only for the supply of replacement parts or goods and shall not be liable for any personal injury, damages, loss of profits, interrupted operations, fines for infringement of the law or damages to the production of the PURCHASER and the PURCHASER shall take up the defense and hold the manufacturer faultless regarding any legal or extra legal proceedings, notice, or claim by the customer or by a third party, and regarding any legal and extra legal expenses and fees brought forward on by such damages.